

**United States Department of Agriculture  
Animal and Plant Health Inspection Service  
Center for Veterinary Biologics  
P. O. Box 844  
Ames, IA 50010**

1. **Reagent Name:** *Erysipelothrix rhusiopathiae* Reference Bacterin
2. **Strain or Source:** SE-9, serotype 2
3. **Lot Number:** IRP 529 (05)
4. **Fill Date:** December 15, 2005
5. **Expiration Date:** April 30, 2016

**Precautions:** This reagent does not present a hazard to laboratory personnel who work with it provided sound fundamental laboratory techniques are followed.

6. **Intended Use:** IRP 529 (05) serves as a reference bacterin for testing the potency of bacterins containing *Erysipelothrix rhusiopathiae*.
7. **Instructions for Use:** Dilute IRP 529 (05) 1:3 in 0.85% saline just prior to use. This shall be considered undiluted reference bacterin. Prepare 3-fold dilutions to bracket the 50% endpoint for use in the mouse potency test according to 9 CFR 113.119 and **SAM 611**. The mouse dose is 0.2 mL administered subcutaneously.

The swine dose is 2.0 mL administered subcutaneously.

**8. Test of Reagent:**

*Mouse potency test* - IRP 529 (05) was tested for potency using the mouse protection test as described in 9 CFR 113.119 and **SAM 611**.

*Mouse safety test* - IRP 529 (05) was tested for safety according to 9 CFR 113.33 with no unfavorable reactions being observed.

*Sterility test* - IRP 529 (05) was tested for sterility according to 9 CFR 113.26 and found to be free of viable bacteria and fungi.

*Residual free formaldehyde test* - IRP 529 (05) was tested for free formaldehyde content by the ferric chloride test and found to contain 0.15 g/L.

**9. Container Size, Type, Weight, or Volume:** 20-mL glass vials containing 10 mL of bacterin.

**10. Storage Conditions:** Store at 2°- 7°C.

**11. CVB Technical Contact:** Bacteriology Section, Center for Veterinary Biologics, (515) 337-6140 or FAX (515) 337-7673.

**12. Origin and Passage History:** The master seed was received from R. Wood, USDA-ARS-NADC, Ames, IA 50010. The number of passages is unknown.

**13. Method of Preparation:** Rehydrated master seed SE-9 was expanded 6 hours in flasks containing *E. rhusiopathiae* seed media, pH 7.2-7.4. The seed media culture was transferred to a 14-L fermenter vessel containing 10 L of production media, pH 7.2. The culture was incubated 7 hours at 35°- 37°C while being mixed and purged with sterile air. The culture was inactivated with 0.5% formaldehyde (v/v), and 1 part sterile AlH<sub>3</sub>O<sub>3</sub> (Rehydragel-L-V aluminum hydroxide fluid gel) was added to 4 parts of formalinized culture.

**14. Other:** None

Reagent orders and feedback should be sent *including phone number* to the following email address: [CVB@aphis.usda.gov](mailto:CVB@aphis.usda.gov)

Reagent orders forms (APHIS 2018) are available from:  
[http://www.aphis.usda.gov/animalhealth/cvb\\_forms](http://www.aphis.usda.gov/animalhealth/cvb_forms)

**REVISED:** 18Mar14 ali